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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,025	02/20/2004	Ernst-Christian Koch	17312	1693
23389	3389 7590 10/05/2006		EXAMINER	
	COTT MURPHY & P I CITY PLAZA	GELLNER, JEFFREY L		
SUITE 300	CITTTENER		ART UNIT	PAPER NUMBER
GARDEN CITY, NY 11530			3643	

DATE MAILED: 10/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Estimations of the may be a validate under the provisions of 37 CFR 1.136(a). In no event, however, may a reply the timely filled to the provision of the main and the provision of the provision of the second provision of the provision of the second provision of the provision of the second pand of the reply will be plants. Communication. Failur to represely within the set or centered period for reply is specified above, the maintain statutory period will apply and will expire SIX (e) MONTHS from the maining date of this communication. Failur to represely within the set or centered period for reply will be plants. Communication of the provision			Application No.	Applicant(s)					
Jeffrey L. Geliner Jeffr			10/784,025	KOCH, ERNST-CHRISTIA	AN				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Exemiser of time may be availated where provides and of 2 FCF 1.1984, in one event-however, may early be tensively liked. The period for reply is specified above, the maintain statutory period will apply and will expite StX (8) MONTH'S from the mailing date of this communication. Failure to reply which the set or extended beninde for moly bill, statute, case the application between ABANDONE OS (SL S. C. § 135). Failure to reply which the set or extended beninde for moly bill, statute, case marked patient level may replicate the mailing date of this communication, even if timely find, may reduce any carried patient term adjustment. See 37 CFR 1.7640. Status **Status** **Responsive to communication(s) filled on 19 July 2006. 2a) This action is FINAL. 2b) This action is non-final. 3b) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4b) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 6-8.11 and 12 is/are withdrawn from consideration. 5b) Claim(s) 1-25, 10 is/are rejected. 7c) Claim(s) 1-59, 10 is/are rejected. 7c) Claim(s) 1-59, 10 is/are objected to by the Examiner. 10c) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 10c) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 10c) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 10c) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 10c) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 10c) The drawing objected to by the Exami		Office Action Summary	Examiner	Art Unit					
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Application/Control Number: 10/784,025

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5, 9, and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 6-7, the text of "metal combined with fluorine in an exothermic reaction" is indefinite because it is unclear whether this reaction occurs continuously after the composition is produced or this reaction occurs upon detonation of the composition.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eaton et al. (Adv. Materials, 2000) in view of Forsberg et al. (US 5,407,500).

As to claims 1, 5, 9, and 10, Eaton discloses a pyrotechnic composition capable of producing IR-radiation comprising a carbocyclic cage molecule (octanitrocubane) as an oxidizing agent. Not disclosed is the carbocyclic cage molecule being fluorinated and a fuel of a

halophilic metal, magnesium. Forsberg et al., however, discloses the use/substitution of fluoro with nitro groups on a ring molecule (col. 4 lines 50-58 with use of component CI) that is exothermic (col. 1 lines 14-20) and magnesium as a fuel (col. 34 lines 3-7). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the composition of Eaton et al. by using fluoro groups instead of nitro groups and Mg as a fuel as disclosed by Forsberg et al. depending upon use of the composition, for example, when a more stable compound is needed (see Gilligan et al for the proposition that substitution of nitro groups with fluoro groups improves thermal stability (col. 3 lines 74-75).

As to claims 2-4, the limitations of claim 1 are disclosed as described above. Not disclosed is the exact formula as given by the expressions disclosed in these claims. It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the composition of Eaton et al. as modified by Forsberg et al. to use these expressions for the composition depending upon use of the composition.

Response to Arguments

Applicant's arguments filed 19 July 2006 have been fully considered but they are not persuasive. Applicant's argument is that neither Eaton et al. nor Forsberg et al. teach or suggest a fluorinated spherical carbocyclic cage molecule that would generate IR radiation (Remarks pages 7-8).

Examiner considers Eaton et al. to disclose a carbocyclic cage molecule (octanitrocubane) that is spherical (Applicant discloses octaflurocubane to be spherical in the specification at page 7, line 15. Since both octanitrocubane and octaflurocubane are cubanes

both are considered to be spherical). Forsberg et al. discloses that nitro and fluoro groups are

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interchangable from col. 4 lines 50-58 (in at least the AI and CI components in that

"hydrocarbyl" is defined as being, inter alia, "substituted hydrocarbyl groups" that include

"halo" and "nitro" groups" (from col. 3, lines 51-55; col. 4, lines 5-14; and col. 4, lines 42-66).

Forsberg et al. further discloses the use of Mg as a fuel with these substituted components.

The combination of the two references would be obvious to one of ordinary skill in the art depending upon the use of the composition. Gilligan et al. (US 3,850,978) discloses that, in an explosive composition, nitro groups are needed for explosive characteristics and fluoro groups improve thermal stability. Hence, substitution for one with the other would be obvious depending upon use of the composition.

Finally, the composition of Eaton et al. as modified by Forsberg et al. would produce IR radiation because it is well settled that compositions that are identical have the same properties (see MPEP 2112.01(II)).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Gellner whose telephone number is 571.272.6887. The examiner can normally be reached on Monday-Friday, 8:30-4:00, alternate.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Poon can be reached on 571.272.6891. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeffrey L. Gellner Primary Examiner Art Unit 3643